

Title (en)
IONIZATION APPARATUS AND METHOD FOR MASS SPECTROMETER SYSTEM

Title (de)
IONISIERUNGSVORRICHTUNG UND -VERFAHREN FÜR MASSENSPEKTROMETERSYSTEM

Title (fr)
APPAREIL D'IONISATION ET PROCEDE POUR UN SYSTEME DE SPECTROMETRE DE MASSE

Publication
EP 1492613 A4 20091216 (EN)

Application
EP 03716618 A 20030314

Priority
• US 0308041 W 20030314
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• US 34162103 A 20030113

Abstract (en)
[origin: WO03081205A2] An ionization apparatus (10) for connection to a mass analyzer (103) is provided. The ionization apparatus (10) comprises a sample slide (101) having at least two sample spots (100) containing analytes to be analyzed by a mass analyzer (103), means for delivering energy (104) to one of the sample spots to release and ionize the analytes to form ions, and an interface (15) connecting the one of the sample spots (100) to the analyzer. The interface (15) comprises a chamber (118) having an orifice (102) in close proximity to the one of the sample spots (100) and defining a first region encompassing the one of the sample spots, and an ion guide (106) disposed in the chamber (118) and leading to the mass analyzer (103) in a second region. Means for sustaining a pressure substantially lower than atmospheric within the first region is provided for capturing the ions while other sample spots (100) are maintained at atmospheric pressure. Means for sustaining a pressure within the second region substantially lower than the pressure within the first region is provided.

IPC 8 full level
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CPC (source: EP)
H01J 49/0418 (2013.01); **H01J 49/067** (2013.01); **H01J 49/164** (2013.01)

Citation (search report)
• [DX] US 6331702 B1 20011218 - KRUTCHINSKY ANDREW N [US], et al
• [X] WO 9930350 A1 19990617 - UNIV BRITISH COLUMBIA [CA], et al
• [PX] WO 02097857 A1 20021205 - ANALYTICA OF BRANFORD INC [US]
• [PA] US 2002070345 A1 20020613 - MIZUOCHI MASAKI [JP], et al
• [A] US 3796872 A 19740312 - MERREN T
• See references of WO 03081205A2

Citation (examination)
WO 0077822 A2 20001221 - PERSEPTIVE BIOSYSTEMS INC [US]

Designated contracting state (EPC)
DE GB

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WO 03081205 A2 20031002; WO 03081205 A3 20031218; AU 2003220320 A1 20031008; AU 2003220320 A8 20031008;
CA 2479872 A1 20031002; CA 2479872 C 20090623; EP 1492613 A2 20050105; EP 1492613 A4 20091216

DOCDB simple family (application)
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